

B2040N2B | 内转子无槽无传感器 Inner Rotor, Slotless, Sensorless

应用领域：医疗器械、工业设备等精密驱动领域。

Applications: precision drives in medical equipment, industrial automation fields.

主要技术指标 | Characteristics

			01-150-12.0	02-80-12.0	03-67-9.0
1 电压	Voltage	V	12.0	12.0	9.0
2 端电阻	Terminal resistance	Ω	1.1	3.6	2.5
3 空载转速	No-load speed	rpm	15000	8000	6700
4 空载电流	No-load current	A	0.25	0.22	0.2
5 堵转转矩	Stall torque	mNm	79.6	41.7	41.2
6 堵转电流	Stall current	A	10.9	3.3	3.6
7 额定转矩	Nominal torque	mNm	7.6	7.6	10.2
8 额定转速	Nominal speed	rpm	13000	5900	4300
9 额定电流	Nominal current	A	1.3	0.8	1.1
10 最大输出功率	Max. output power	W	31	8.7	7.2
11 最大效率	Max. efficiency	%	72	55	58
12 反电势常数	Back-EMF constant	mV/rpm	0.8	1.4	1.3
13 转矩常数	Torque constant	mNm/A	7.5	13.4	12.1
14 KV 值	KV Value	rpm/V	1250.0	666.7	744.4
15 转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	188.5	192.1	162.7
16 转子惯量	Rotor inertia	gcm ²	2	2	2
17 重量	Weight	g	55	55	55
18 热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		16	
19 热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		3.5	
20 热时常数 (电机)	Thermal time constant motor	s		620	
21 热时常数 (线圈)	Thermal time constant winding	s		4	
22 工作温度范围	Operating temperature range	°C		-40~+100	
23 绕组耐温等级	Thermal class of winding	°C		155	
24 轴向间隙	Axial play	mm		0.012	
25 径向间隙	Radial play	mm		0.008	
26 动态轴向载荷	Axial load dynamic	N		5	
27 静态轴向载荷	Axial load static	N		80	
28 径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N		29	
29 极对数	No. of pole pairs			1	
30 轴承	Bearings			2 枚滚动轴承/2 ball bearings	
31 换向结构	Commutation			无传感器/Sensorless	
32 防护等级	Protection class			IP20	

★可选参数 Options: 导线长度 Lead wires length 轴长 Shaft length 性能 Special coils 齿轮箱 Gearheads 轴承类型 Bearing type 霍尔传感器 Hall sensor

编码器 Encoder 驱动器 Driver

外观图 | Outline Drawing

